

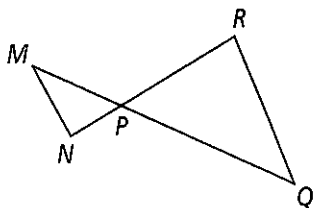
Name: \_\_\_\_\_ Date: \_\_\_\_\_ Per. \_\_\_\_\_

### Homework 4.5 Similar Triangle Proofs

Choose TWO proofs and clearly explain why the prove statement is true. You do not need to use the two-column format.

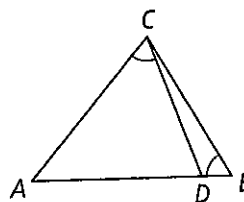
14. Given:  $PR = 2NP$ ,  
Proof  $PQ = 2MP$

Prove:  $\triangle MNP \sim \triangle QRP$

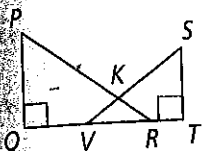


See Prob

13. Given:  $\angle ABC \cong \angle ACD$   
Proof Prove:  $\triangle ABC \sim \triangle ACD$



27. Given:  $\overline{PQ} \perp \overline{QT}$ ,  $\overline{ST} \perp \overline{TQ}$ ,  $\frac{PQ}{ST} = \frac{QR}{TV}$   
Proof Prove:  $\triangle VKR$  is isosceles.



28. Given:  $\overline{AB} \parallel \overline{CD}$ ,  $\overline{BC} \parallel \overline{DG}$   
Proof Prove:  $AB \cdot CG = CD \cdot AC$

